

We claim:

1. A method for assessing the effectiveness of a drug therapy and the organ function of a subject using a single integrated test device, comprising the  
5 steps of:

(a) applying a body fluid sample from the subject to a first test strip containing a signal-producing system indicative of the concentration of an organ marker present in the  
10 sample,

using the first strip with the device having a means for detecting the signal produced by the first strip, and

15 displaying the concentration of the organ marker in the sample;

(b) applying a body fluid sample from the subject to a second test strip containing a signal-producing system indicative of the concentration of a drug present in the sample,  
20 using the second strip with the device having a means for detecting the signal produced by the second strip, and

displaying the concentration of the drug in the sample; and

25 (c) applying a body fluid sample from the subject to a third test strip containing a signal-producing system indicative of the

concentration of a metabolite present in the sample;

5 using the third strip with the device having a means for detecting the signal produced by the third strip, and

displaying the concentration of the metabolite in the sample;

10 thereby assessing the subject's organ function and the therapeutic efficacy of the drug.

2. The method of claim 1, wherein steps (a) and (b) are performed, but not step (c).

3. The method of claim 1, wherein steps (a) and (c) are performed, but not step (b).

15 4. The method of claim 1, wherein steps (b) and (c) are performed, but not step (a).

5. The method of claim 1, wherein the organ marker is indicative of the function of an organ selected from the group consisting of liver and kidneys.

20 6. The method of claim 1, wherein the organ marker is selected from the group consisting of ALT, AST, GGT and creatinine.

7. The method of claim 6, wherein the organ marker is AST.

25 8. The method of claim 6, wherein the organ marker is ALT.

9. The method of claim 1, wherein the drug causes damage to an organ selected from the group consisting of liver and kidneys.

10. The method of claim 1, wherein the drug is  
5 selected from the group consisting of troglitazone, metformin, phenformin, prednisone, prednisolone, docetazel, gemcitabine, bicalutamide, nilutamide, isoniazi, methlydopa, nitrofurantoin, phenytoin, streptomycin, cimetidine, clofibrate, phentyoin,  
10 hydrochlorothiazide, acetaminophen, ibuprofen and tolcapone.

11. The method of claim 10, wherein the drug is troglitazone.

12.. The method of claim 10, wherein the drug  
15 is metformin.

13. The method of claim 1, wherein the metabolite is selected from the group consisting of glucose, fructosamine, hemoglobin A<sub>1c</sub>(HbA<sub>1c</sub>), lactic acid and creatinine.

20 14. The method of claim 13, wherein the metabolite is glucose.

15. The method of claim 13, wherein the metabolite is fructosamine.

16. An integrated drug test and organ function test system, consisting of

- (a) a first strip capable of reacting with an organ marker in a liquid sample,
- 5 (b) a second strip capable of reacting with a drug in a liquid sample,
- (c) a third strip capable of reacting with a metabolite a liquid sample, and
- 10 (d) a single device capable of accepting the strips when inserted one at time, and discriminating between the strips when inserted, so that
  - 15 (1) if the first strip is inserted, the device measures the drug reaction on the first strip and displays the drug concentration of the liquid sample, and
  - 20 (2) if the second strip is inserted, the device measures the organ marker reaction on the second strip and displays the organ marker concentration of the liquid sample.
  - 25 (3) if the third strip is inserted, the device measures the metabolite reaction on the third strip and displays the metabolite concentration of the liquid sample.

17. The test system of claim 16, comprising elements (a), (b) and (d), but not (c).

18. The test system of claim 16, comprising elements (a), (c) and (d), but not (b).

5 19. The test system of claim 16, comprising elements (b), (c) and (d), but not (a).

20. The test system of claim 16, wherein the device measures each reaction with a single measuring device.